09872087 "050101

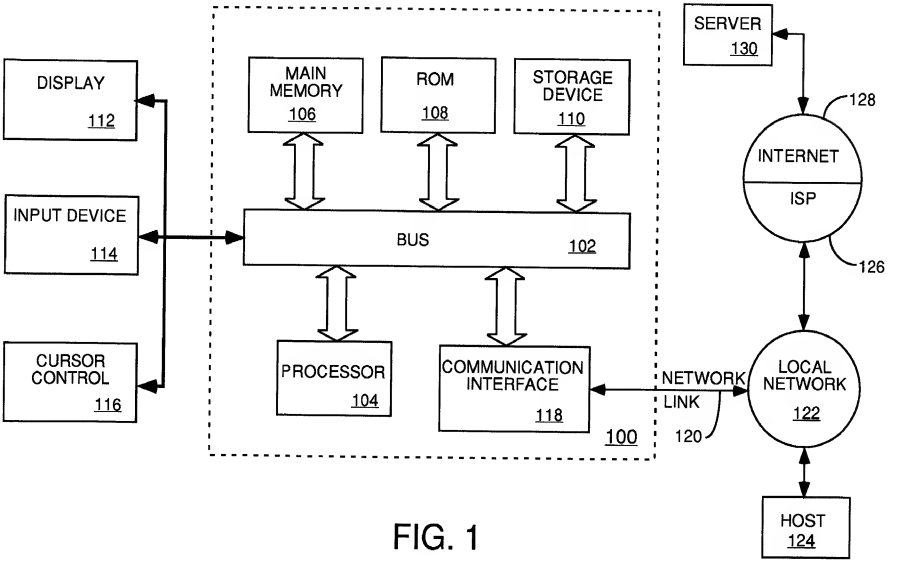


FIG. 1

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

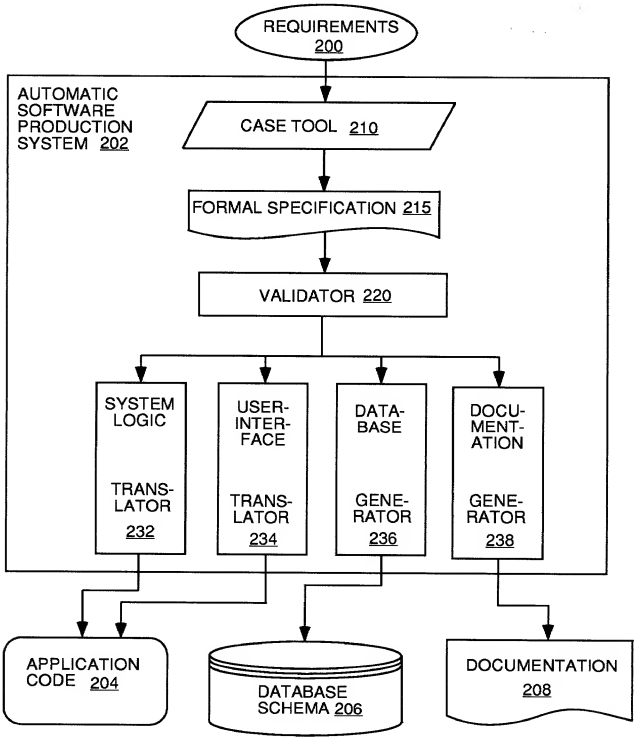

REQUIREMENTS 200
AUTOMATIC SOFTWARE PRODUCTION SYSTEM 202
CASE TOOL 210
FORMAL SPECIFICATION 215
VALIDATOR 220
SYSTEM LOGIC TRANS-LATOR 232
USER-INTER-FACE TRANS-LATOR 234
DATA-BASE GENE-RATOR 236
DOCU-MENT-ATION GENE-RATOR 238
APPLICATION CODE 204
DATABASE SCHEMA 206
DOCUMENTATION 208

FIG. 2

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

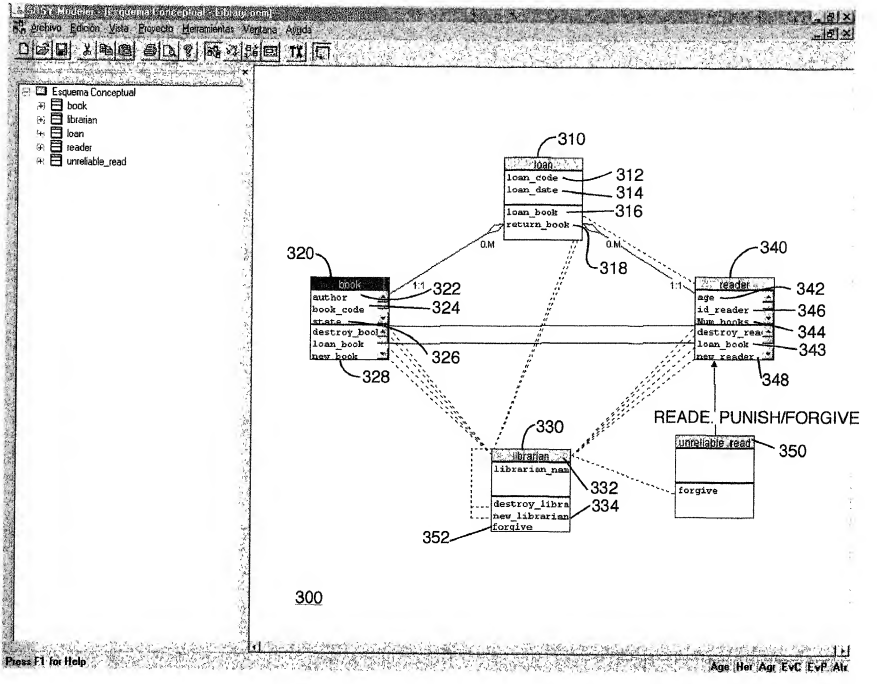


FIG. 3

TOTOOT Z8082860

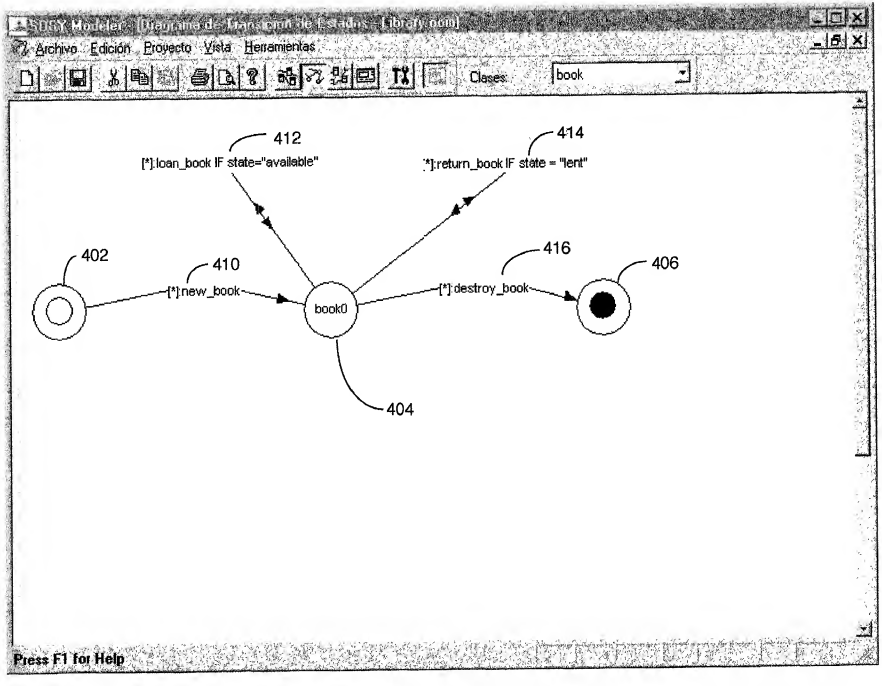


FIG. 4A

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/672,087
FILING DATE: 06/01/01
DOCKET NO.: CHG-001.2P

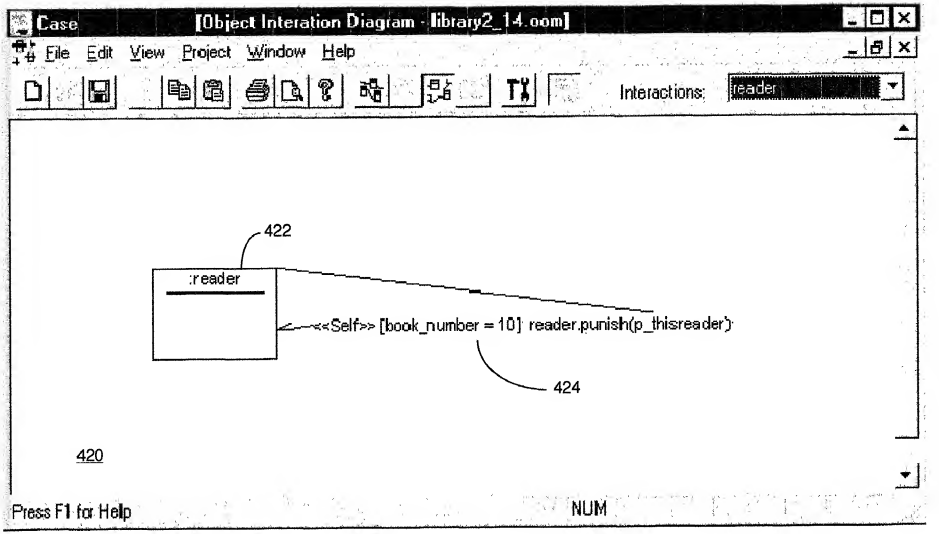


FIG. 4B

TOTOOT Z8DZ8Z0

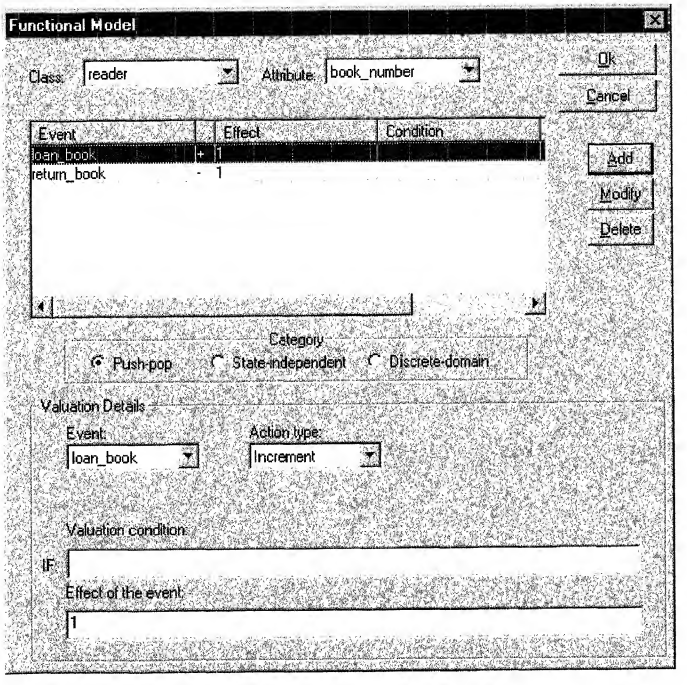


FIG. 5

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO.: CHG-001.2P

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES OF SYSTEM LOGIC TRANSLATORS WILL PREFORM

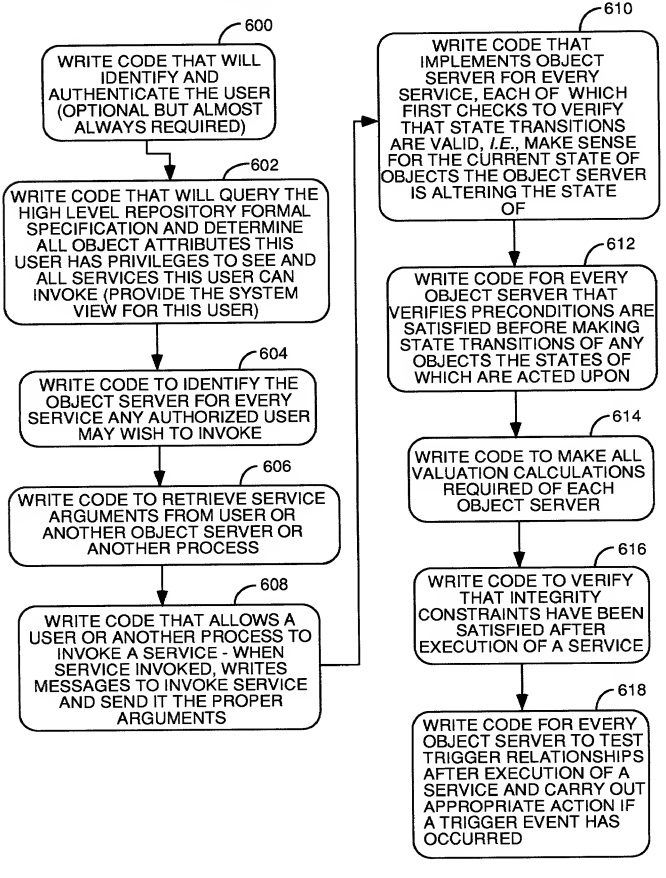


FIG. 6

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE USER INTERFACE TRANSLATOR SUBGENUS WILL PREFORM

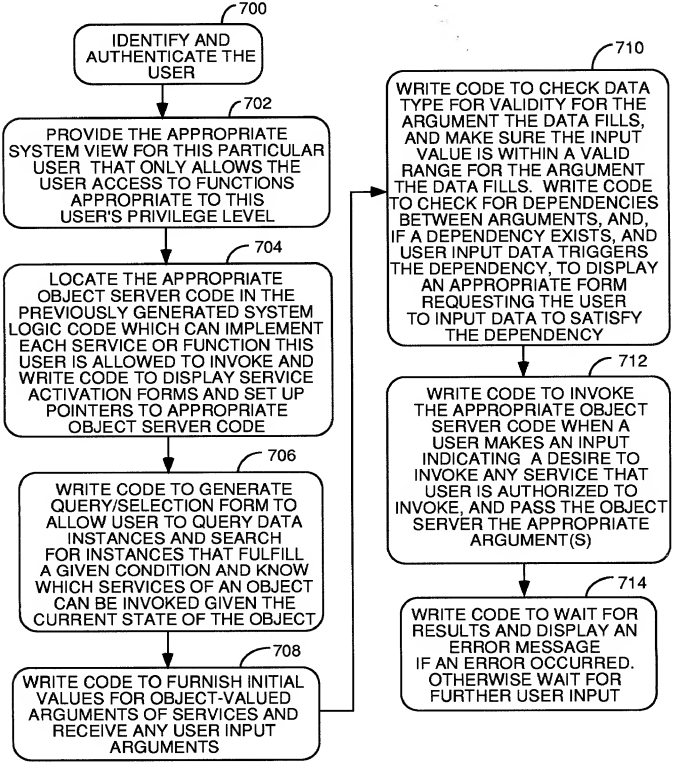


FIG. 7

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DATABASE GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

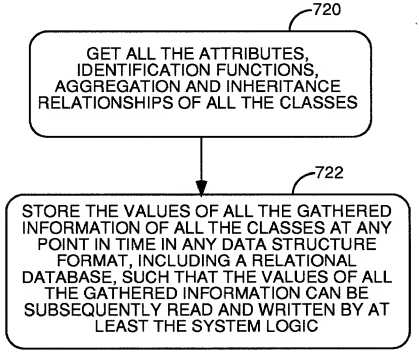
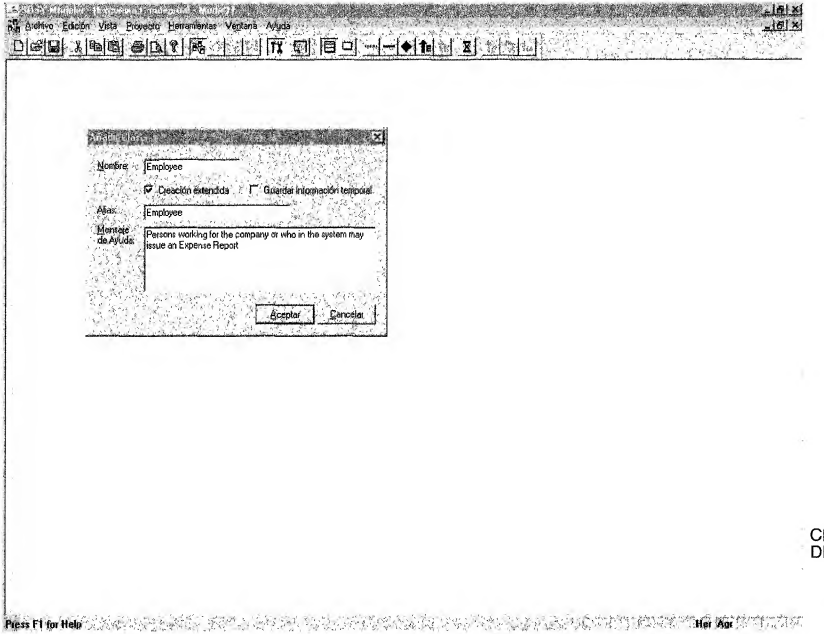


FIG. 8

TOTOOT*28022860

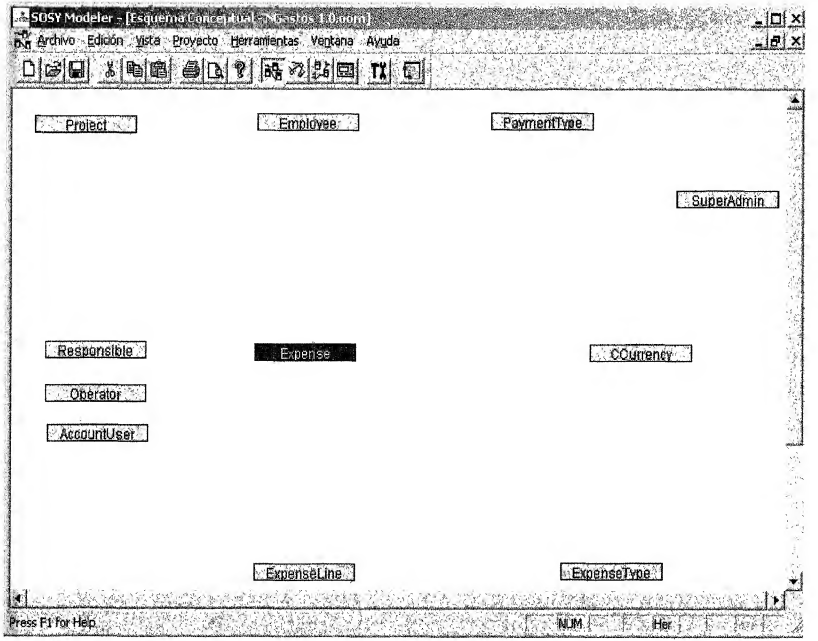


CLASS CREATION DIALOG

FIG. 9A

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

TOTOOT'Z80Z7860

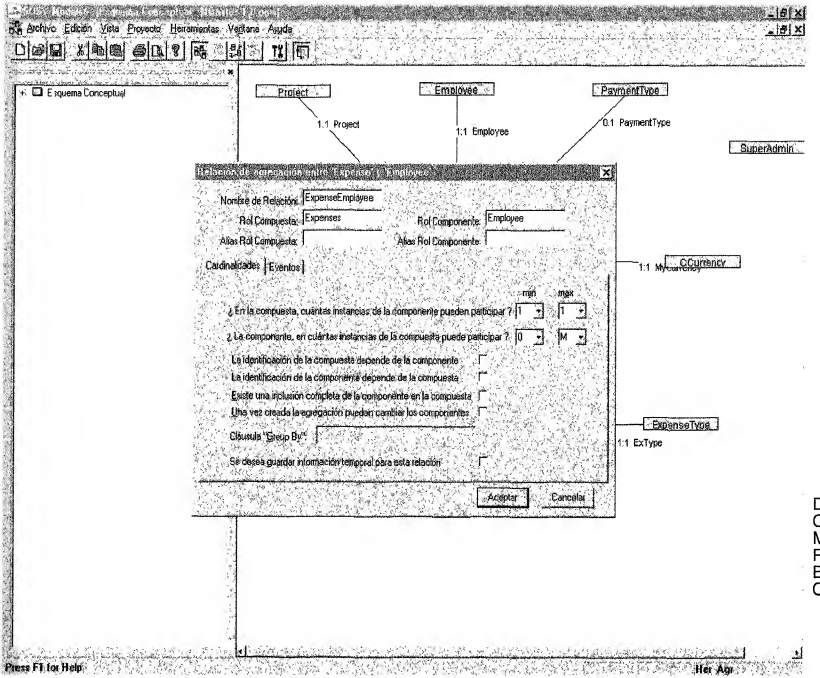


ALL CLASSES NEEDED AND CREATED IN EXPENSE MANAGEMENT SYSTEM

FIG. 9B

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

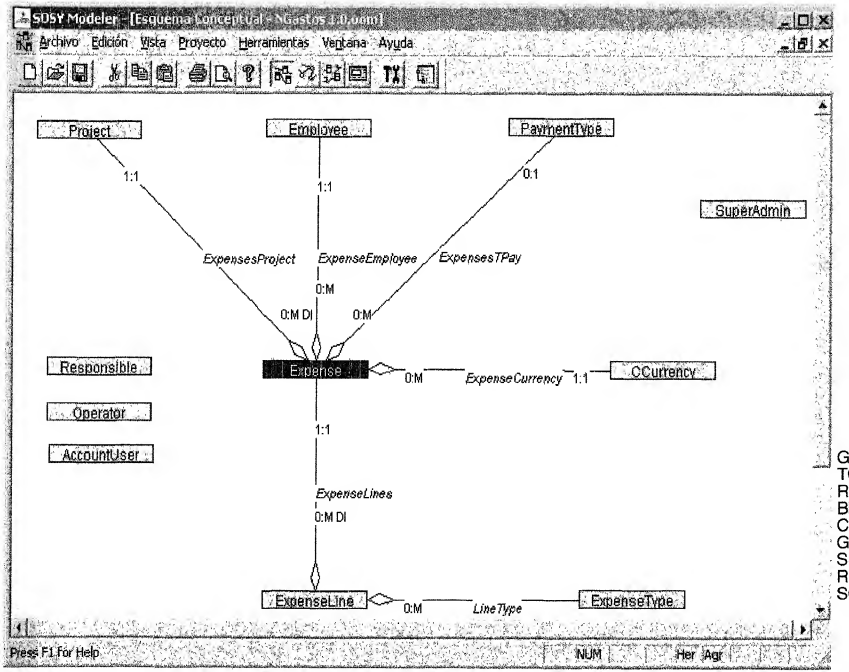
AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/2001
DOCKET NO. CHG-001.2P



DIALOG TO CREATE AND MODIFY RELATIONSHIPS BETWEEN CLASSES

FIG. 9C

TOTOOT:Z80Z860



GRAPHIC DIALOG TO CREATE RELATIONSHIPS BETWEEN CLASSES AND GRAPHICALLY SHOW THE RELATIONSHIPS SO CREATED

FIG. 10

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,087
FILING DATE: 06/01/01
DOCKET NO. CHG-001.2P

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/672,107
FILING DATE: 09/01/07
DOCKET NO.: CHG-001.2P

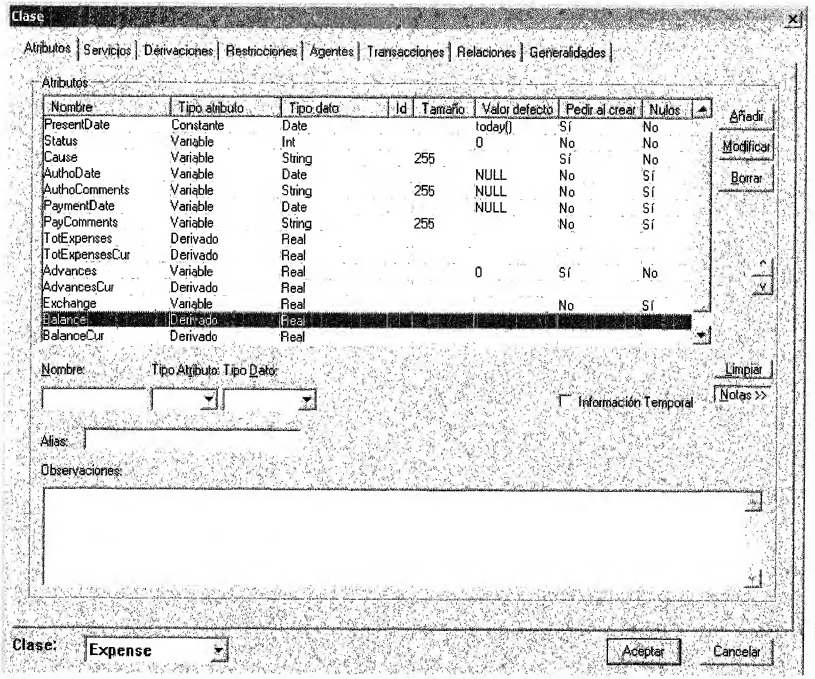


FIG. 11A

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBARRA AND PASTOR
SERIAL NO.: 09/470,047
FILING DATE: 09/470,047
DOCKET NO.: CHG-001.2P

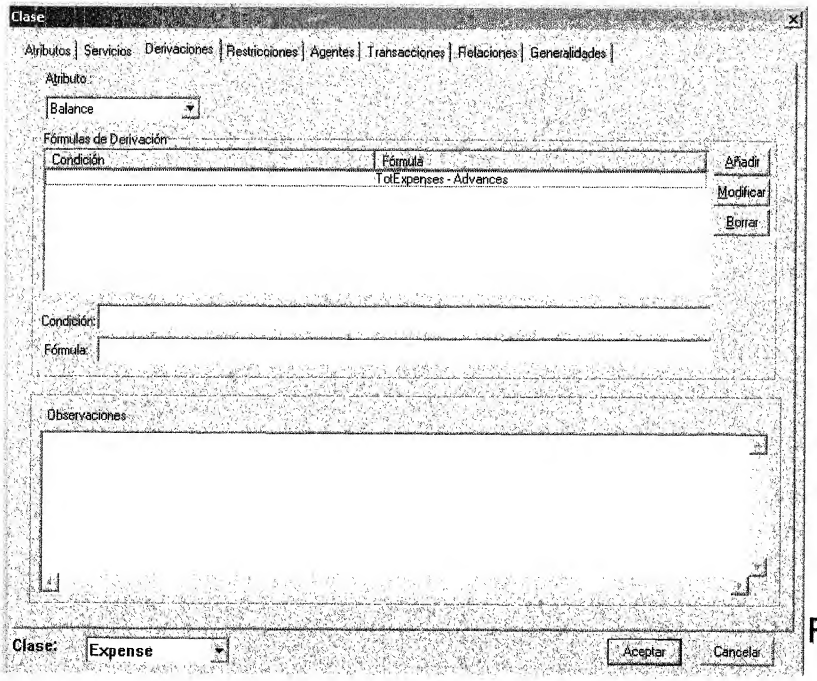
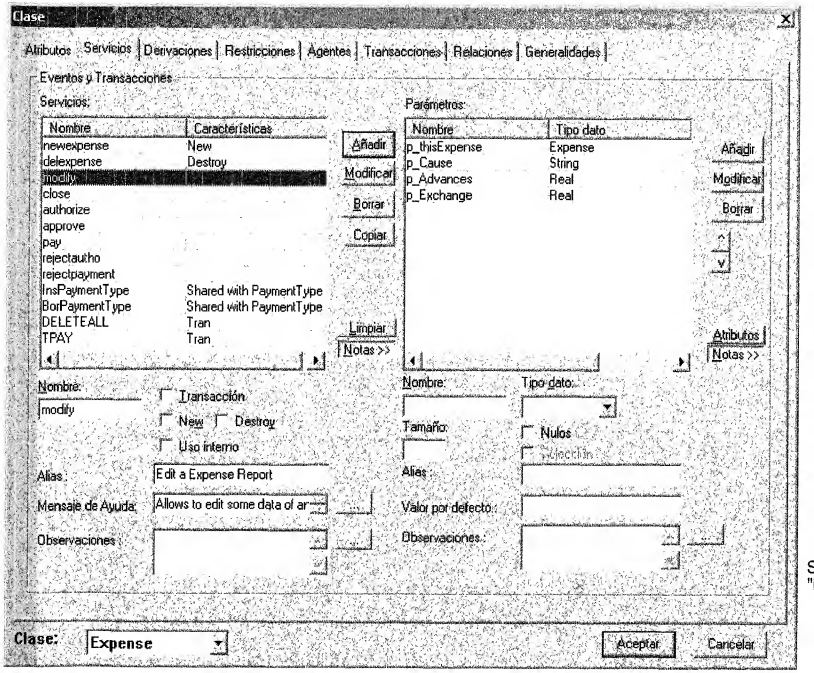


FIG. 11B

TOTOOT*28026860

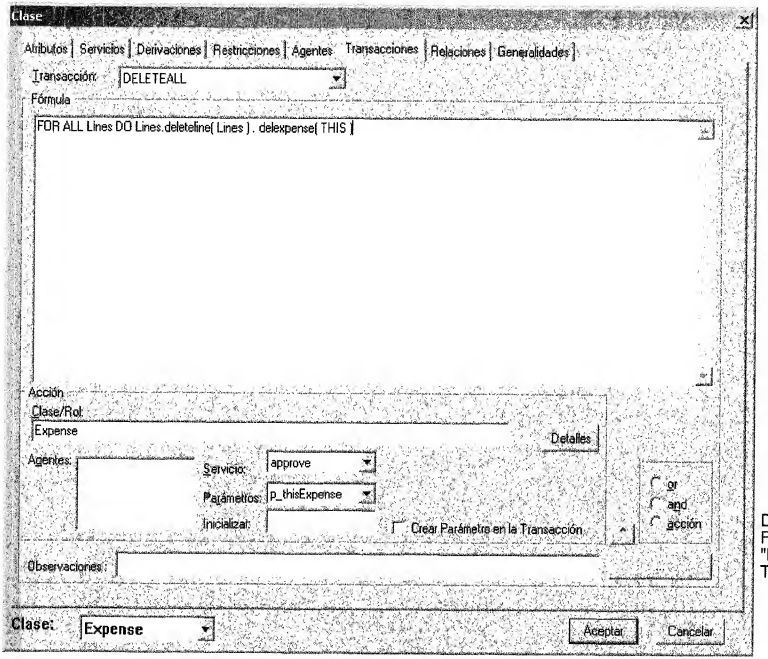


SERVICES OF CLASS "EXPENSE"

FIG. 12

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/872,087
FILING DATE: 06/01/01
DOCKET NO.: CHG-001.2P

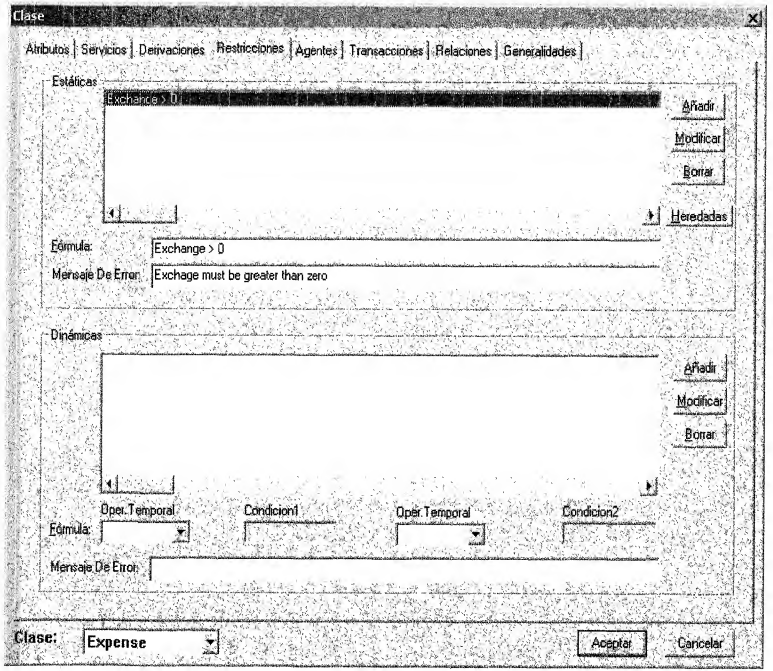
AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO:
FILING DATE: 09/01/97
DOCKET NO: CHG-001.2P



DIALOG TO DEFINE FORMULA FOR "DELETEALL" TRANSACTION

FIG. 13

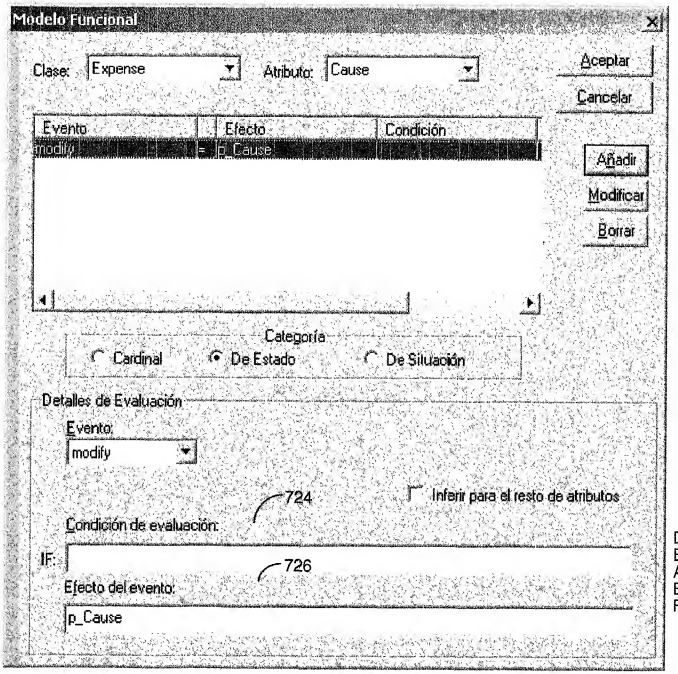
TOTOST Z8892860



INTEGRITY CONSTRAINTS OF EXPENSE CLASS

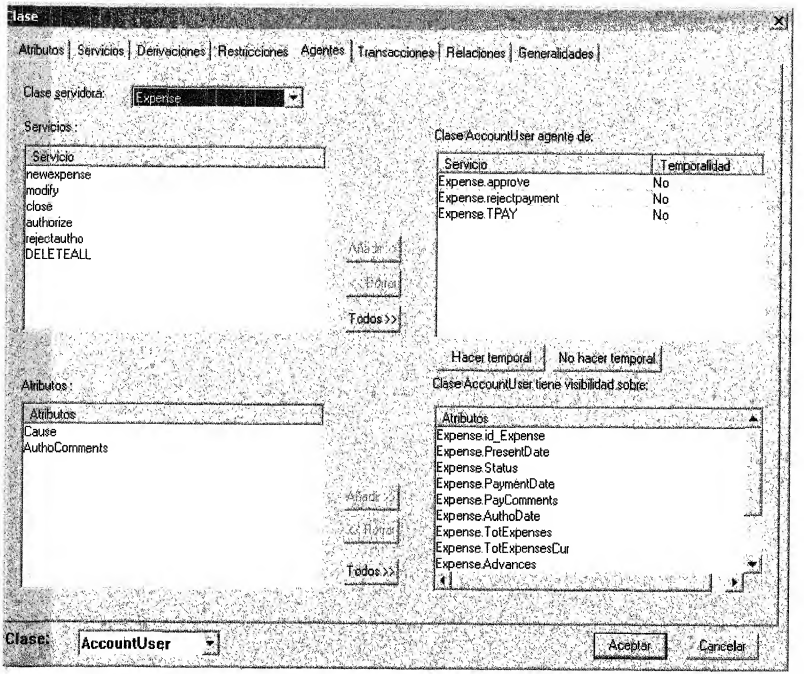
FIG. 14

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/077,087
FILING DATE: 06/01/01
DOCKET NO.: CHG-001.2P



DIALOG BOX TO CREATE EVALUATION OF "CAUSE" ATTRIBUTE WITH THE "MODIFY" EVENT TO FORM PART OF FUNCTIONAL MODEL

FIG. 15

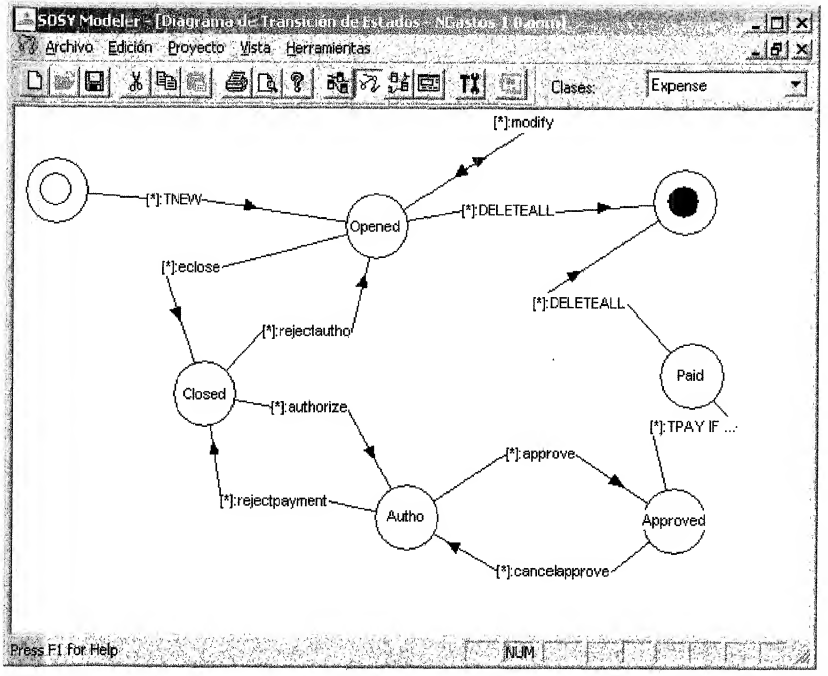


AGENT RELATIONSHIP DIALOG THAT CAN BE USED TO SET WHICH SERVICES "ACCOUNT USE" CAN ACCESS AND VISIBILITY OF CLASS ATTRIBUTES FOR THIS USER

FIG. 16

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/872,087
FILING DATE: 06/01/2001
DOCKET NO.: CHG-001.2P

TOTOOT'Z80Z68O

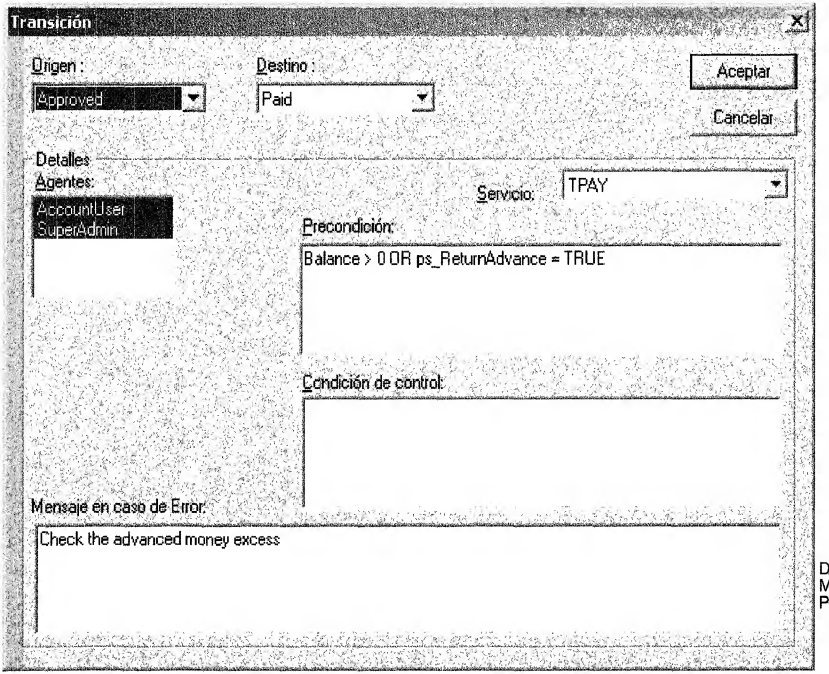


STATE TRANSITION DIAGRAM FOR CLASS "EXPENSE"

FIG. 17

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/672,067
FILING DATE: 09/27/00
DOCKET NO.: CHG-0012P

TOTOOT*Z6026860

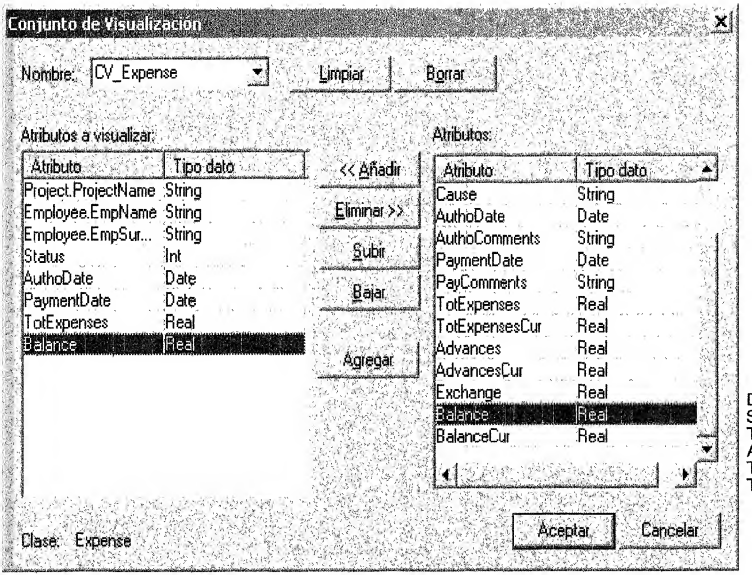


DIALOG BOX TO MODEL PRECONDITION

FIG. 18

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/872,087
FILING DATE: 06/01/01
DOCKET NO.: OHG-001.2P

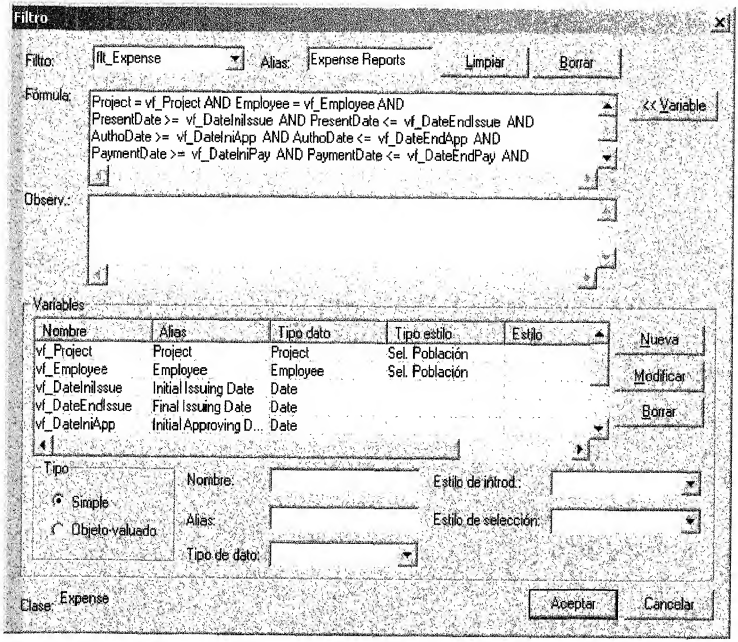
AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.
FILING DATE: 09/872,087
DOCKET NO. CHG-001.2P



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH A SET OF ATTRIBUTES TO BE DISPLAYED FOR THE "EXPENSE" CLASS

FIG. 19

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO.: 09/272,067
FILING DATE: 03/18/99
DOCKET NO.: CHG-001.2P



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH THE SEARCHING CRITERIA FOR THE EXPENSE CLASS AND TO ESTABLISH THE FILTER FORMULA TO USE AND THE VARIABLES TO REQUEST THE USER TO ENTER

FIG. 20

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DOCUMENTATION GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

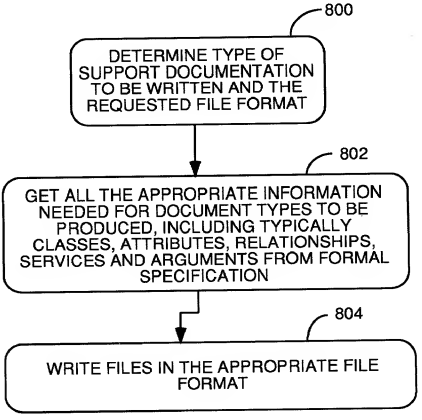


FIG. 21